

Inventions & Innovation Emerging Technology

Pulsed Laser Imager for Detecting Hydrocarbon and VOC Emissions

A new hydrocarbon detection device, the pulsed laser imager, uses the principles of infrared spectroscopy to locate and measure the extent of hydrocarbon leaks and emissions of volatile organic compounds (VOCs). The imager's main advantage over its competitors is its remote-sensing feature that does not require an air sample. The imager detects hydrocarbon leaks from a safe distance by analyzing the electromagnetic spectra of the compounds. Both the short- and long-range versions of the pulsed laser imager are flexible, sensitive, accurate, and intrinsically safe and provide a cost-effective solution to hydrocarbon detection.



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